

IN THE CLAIMS:

1. (Previously Presented) A system, comprising:

a plurality of entities,

wherein at least two of said entities are configured to use stream control transmission protocol for signaling therebetween,

wherein said stream control transmission protocol signaling comprises a source port number, a destination port number, data, and connection identity information relating to a connection between at least two of said entities, and

wherein said connection identity information identifies the ultimate destination of said data.
2. (Previously Presented) The apparatus of claim 21, wherein said connection identity information comprises address information.
3. (Previously Presented) The apparatus of claim 2, wherein said address information identifies at least one other further entity.
4. (Previously Presented) The apparatus of claim 21, wherein said connection identity information comprises information identifying an application.

5. (Previously Presented) The apparatus of claim 21, wherein said connection identity information identifies a connection flow.

6. (Previously Presented) The apparatus of claim 21, wherein said connection identity information is provided in a stream control transmission protocol packet.

7. (Previously Presented) The apparatus of claim 6, wherein said connection identity information is provided in the data chunk part of the stream control transmission protocol packet.

8. (Previously Presented) The apparatus of claim 7, wherein said connection identity information is provided in a payload protocol identifier field.

9. (Previously Presented) The apparatus of claim 7, wherein said connection identity information is provided in a field between a stream sequence number field and user data.

10. (Previously Presented) The apparatus of claim 6, wherein said connection identity information is provided in a header for the stream control transmission protocol packet.

11. (Previously Presented) The apparatus of claim 6, wherein said address information is provided in a separate field in said stream control transmission protocol packet.

12. (Previously Presented) The apparatus of claim 21, wherein the transmitter is configured to provide further address information relating to at least one of the apparatus or the another entity.

13. (Cancelled)

14. (Previously Presented) The apparatus of claim 21, further comprising:
a processor configured to set up stream control transmission protocol associations.

15. (Previously Presented) The apparatus of claim 21, further comprising:
a receiver configured to receive status information relating to stream control transmission protocol associations.

16. (Previously Presented) The apparatus of claim 21, wherein the transmitter is further configured to forward stream control transmission protocol packets to a radio network layer in dependence on said connection identity information.

17. (Previously Presented) The apparatus of claim 21, further comprising:
a processor configured to add said connection identity information to a stream control transmission protocol packet.

18. (Previously Presented) The apparatus as claimed in claim 3, wherein said further entity comprises at least one of the following:

- user terminal,
- user,
- group of users,
- service,
- network, or part of network,
- server, or
- cell or base transceiver station.

19. (Previously Presented) The apparatus as claimed in claim 21, wherein the apparatus is one of the following:

base station; controller; radio network controller; core network; radio network access server; gateway; or server.

20. (Previously Presented) A method, comprising:

sending stream control transmission protocol transport signaling information from an entity to another entity,

wherein said stream control transmission protocol signaling information comprises a source port number, a destination port number, data, and connection identity information relating to a connection between said two entities, and

wherein said connection identity information identifies the ultimate destination of said data.

21. (Previously Presented) An apparatus, comprising:

a transmitter configured to send to another entity a stream control transmission protocol transport packet,

wherein said transmitter is configured to include in said packet a source port number, a destination port number, data, and connection identity information relating to a connection between the entity and the another entity, and

wherein said connection identity information identifies the ultimate destination of said data.

22. (Previously Presented) An apparatus, comprising:

sending means for sending to another entity a stream control transmission protocol transport packet; and

including means for including in said packet a source port number, a destination port number, data, and connection identity information relating to a connection between the entity and the another entity,

wherein said connection identity information identifies the ultimate destination of said data.

23. (Previously Presented) The method of claim 20, wherein said connection identity information comprises address information.

24. (Previously Presented) The method of claim 23, wherein said address information identifies at least one other further entity.

25. (Previously Presented) The method of claim 20, wherein said connection identity information comprises information identifying an application.

26. (Previously Presented) The method of claim 20, wherein said connection identity information identifies a connection flow.

27. (Previously Presented) The method of claim 20, wherein said connection identity information is provided in a stream control transmission protocol packet.

28. (Previously Presented) The method of claim 27, wherein said connection identity information is provided in the data chunk part of the stream control transmission protocol packet.

29. (Previously Presented) The method of claim 28, wherein said connection identity information is provided in a payload protocol identifier field.

30. (Previously Presented) The method of claim 28, wherein said connection identity information is provided in a field between a stream sequence number field and user data.

31. (Previously Presented) The method of claim 27, wherein said connection identity information is provided in a header for the stream control transmission protocol packet.

32. (Previously Presented) The method of claim 27, wherein said address information is provided in a separate field in said stream control transmission protocol packet.

33. (Previously Presented) The method of claim 20, further comprising:

providing further address information relating to at least one of the entity or the another entity.

34. (Previously Presented) The method of claim 20, further comprising:
setting up stream control transmission protocol associations.

35. (Previously Presented) The method of claim 20, further comprising:
receiving status information relating to stream control transmission protocol associations.

36. (Previously Presented) The method of claim 20, further comprising:
forwarding stream control transmission protocol packets to a radio network layer
in dependence on said connection identity information.

37. (Previously Presented) The method of claim 20, further comprising:
adding said connection identity information to a stream control transmission
protocol packet.

38. (Previously Presented) A computer-readable medium encoded with
instructions that, when executed perform a process, the process comprising:

sending stream control transmission protocol transport signaling information from an entity to another entity,

wherein said stream control transmission protocol signaling information comprises a source port number, a destination port number, data, and connection identity information relating to a connection between said two entities, and

wherein said connection identity information identifies the ultimate destination of said data.